

METHODS FOR TREATING ESSENTIAL TREMOR

ABSTRACT OF THE DISCLOSURE

Methods for treating essential tremor are disclosed. A method in accordance with one embodiment of the invention includes directing a patient to perform a muscle action, for example, a postural or kinetic muscle action. The method can further include directing information to be collected, with the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action. The essential tremor motion of the patient can then be at least reduced by applying an electrical stimulation at least proximate to a stimulation site, with the location of the stimulation site being based at least in part on the collected information. The information can include visual images, such as are generated by MRI, fMRI, or CT techniques, or the information can be non-visual. In particular embodiments, the location of the stimulation site can be determined by comparing two pieces of information, for example, neural activities before and after drug intake, or neural activities at the left and right hemispheres of the brain.